

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/910,695

DATE: 08/15/2001
TIME: 13:37:04

Input Set : N:\Crf3\RULE60\09910695.txt
Output Set: N:\CRF3\08152001\I910695.raw

SEQUENCE LISTING

ENTERED

- 4 (1) GENERAL INFORMATION:
 - 6 (i) APPLICANT: Hedrick, Joseph A.
Vicari, Alain P.
Zlotnik, Albert
 - 10 (ii) TITLE OF INVENTION: Mammalian Chemokines; Receptors;
Reagents; Uses
 - 13 (iii) NUMBER OF SEQUENCES: 10
 - 15 (iv) CORRESPONDENCE ADDRESS:
 - 16 (A) ADDRESSEE: DNAX Research Institute
 - 17 (B) STREET: 901 California Avenue
 - 18 (C) CITY: Palo Alto
 - 19 (D) STATE: California
 - 20 (E) COUNTRY: USA
 - 21 (F) ZIP: 94304-1104
 - 23 (v) COMPUTER READABLE FORM:
 - 24 (A) MEDIUM TYPE: Floppy disk
 - 25 (B) COMPUTER: IBM PC compatible
 - 26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - 27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
 - 29 (vi) CURRENT APPLICATION DATA:
 - C--> 30 (A) APPLICATION NUMBER: US/09/910,695
 - C--> 31 (B) FILING DATE: 20-Jul-2001
 - 37 (C) CLASSIFICATION:
 - 34 (vii) PRIOR APPLICATION DATA:
 - 35 (A) APPLICATION NUMBER: 09/122,585
 - 36 (B) FILING DATE: 24-JUL-1998
 - 39 (viii) ATTORNEY/AGENT INFORMATION:
 - 40 (A) NAME: Ching, Edwin P.
 - 41 (B) REGISTRATION NUMBER: 34,090
 - 42 (C) REFERENCE/DOCKET NUMBER: DX0757
 - 44 (ix) TELECOMMUNICATION INFORMATION:
 - 45 (A) TELEPHONE: (650)852-9196
 - 46 (B) TELEFAX: (650)496-1200
 - 49 (2) INFORMATION FOR SEQ ID NO: 1:
 - 51 (i) SEQUENCE CHARACTERISTICS:
 - 52 (A) LENGTH: 179 base pairs
 - 53 (B) TYPE: nucleic acid
 - 54 (C) STRANDEDNESS: single
 - 55 (D) TOPOLOGY: linear
 - 57 (ii) MOLECULE TYPE: cDNA
 - 60 (ix) FEATURE:
 - 61 (A) NAME/KEY: CDS
 - 62 (B) LOCATION: 18..179
 - 64 (x) PUBLICATION INFORMATION:
 - 65 (H) DOCUMENT NUMBER: US 60/053,693
 - 66 (I) FILING DATE: 25-JUL-1997

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/910,695

DATE: 08/15/2001
TIME: 13:37:04

Input Set : N:\Crf3\RULE60\09910695.txt
Output Set: N:\CRF3\08152001\I910695.raw

68	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:				
70	GTTAAACCAC ACTATTC ATG CAA AAG GGT GTA GGG TTA CTG AGG ACA GTT	50			
71	Met Gln Lys Gly Val Gly Leu Leu Arg Thr Val				
72	1 5 10				
74	CCC TTG GTA CCT TCA GTC TCT GGT CAG ATT GAC CTT TTG GTA CTG TGT	98			
75	Pro Leu Val Pro Ser Val Ser Gly Gln Ile Asp Leu Leu Val Leu Cys				
76	15 20 25				
78	ATG TGT ATA AAA ACG ACT ACT CCT CAT ATA TTT ATT TCT GAT TAT AAG	146			
79	Met Cys Ile Lys Thr Thr Pro His Ile Phe Ile Ser Asp Tyr Lys				
80	30 35 40				
82	ATA ATA TAT TCT GGA AAA CAC TGG AAA ATA CAT	179			
83	Ile Ile Tyr Ser Gly Lys His Trp Lys Ile His				
84	45 50				
87	(2) INFORMATION FOR SEQ ID NO: 2:				
89	(i) SEQUENCE CHARACTERISTICS:				
90	(A) LENGTH: 54 amino acids				
91	(B) TYPE: amino acid				
92	(D) TOPOLOGY: linear				
94	(ii) MOLECULE TYPE: protein				
96	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:				
98	Met Gln Lys Gly Val Gly Leu Leu Arg Thr Val Pro Leu Val Pro Ser				
99	1 5 10 15				
101	Val Ser Gly Gln Ile Asp Leu Leu Val Leu Cys Met Cys Ile Lys Thr				
102	20 25 30				
104	Thr Thr Pro His Ile Phe Ile Ser Asp Tyr Lys Ile Ile Tyr Ser Gly				
105	35 40 45				
107	Lys His Trp Lys Ile His				
108	50				
110	(2) INFORMATION FOR SEQ ID NO: 3:				
112	(i) SEQUENCE CHARACTERISTICS:				
113	(A) LENGTH: 1314 base pairs				
114	(B) TYPE: nucleic acid				
115	(C) STRANDEDNESS: single				
116	(D) TOPOLOGY: linear				
118	(ii) MOLECULE TYPE: cDNA				
121	(ix) FEATURE:				
122	(A) NAME/KEY: CDS				
123	(B) LOCATION: 179..1171				
125	(x) PUBLICATION INFORMATION:				
126	(H) DOCUMENT NUMBER: US 60/053,693				
127	(I) FILING DATE: 25-JUL-1997				
129	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:				
131	GTCTAAAACA AAATACAACA TTTCTTAAAT ACACTGTTTC CAGAAAGAGC TATTTAAC	60			
133	GAAGCAACTC AAAGATATCC CTTCGACAGA AGTGGAAAGTG CTGAAAAATG CTCATCTCTC	120			
135	ACACAGACTT TTGATGGACA GGAGTTCTA AGTATCATGC CTACCAACAA GCTGTAAA	178			
137	ATG ATC ACC CTG AAC AAT CAA GAT CAA CCT GTC CCT TTT AAC AGC TCA	226			
138	Met Ile Thr Leu Asn Asn Gln Asp Gln Pro Val Pro Phe Asn Ser Ser				
139	1 5 10 15				
141	CAT CCA GAT GAA TAC AAA ATT GCA GCC CTT GTC TTC TAT AGC TGT ATC	274			

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/910,695

DATE: 08/15/2001
TIME: 13:37:04

Input Set : N:\CrF3\RULE60\09910695.txt
Output Set: N:\CRF3\08152001\I910695.raw

142	His Pro Asp Glu Tyr Lys Ile Ala Ala Leu Val Phe Tyr Ser Cys Ile			
143	20	25	30	
145	TTC ATA ATT GGA TTA TTT GTT AAC ATC ACT GCA TTA TGG GTT TTC AGT	322		
146	Phe Ile Ile Gly Leu Phe Val Asn Ile Thr Ala Leu Trp Val Phe Ser			
147	35	40	45	
149	TGT ACC ACC AAG AAG AGA ACC ACG GTA ACC ATC TAT ATG ATG AAT GTG	370		
150	Cys Thr Thr Lys Lys Arg Thr Thr Val Thr Ile Tyr Met Met Asn Val			
151	50	55	60	
153	GCA TTA GTG GAC TTG ATA TTT ATA ATG ACT TTA CCC TTT CGA ATG TTT	418		
154	Ala Leu Val Asp Leu Ile Phe Ile Met Thr Leu Pro Phe Arg Met Phe			
155	65	70	75	80
157	TAT TAT GCA AAA GAT GCA TGG CCA TTT GGA GAG TAC TTC TGC CAG ATT	466		
158	Tyr Tyr Ala Lys Asp Ala Trp Pro Phe Gly Glu Tyr Phe Cys Gln Ile			
159	85	90	95	
161	ATT GGA GCT CTC ACA GTG TTT TAC CCA AGC ATT GCT TTA TGG CTT CTT	514		
162	Ile Gly Ala Leu Thr Val Phe Tyr Pro Ser Ile Ala Leu Trp Leu Leu			
163	100	105	110	
165	GCC TTT ATT AGT GCT GAC AGA TAC ATG GCC ATT GTA CAG CCG AAG TAC	562		
166	Ala Phe Ile Ser Ala Asp Arg Tyr Met Ala Ile Val Gln Pro Lys Tyr			
167	115	120	125	
169	GCC AAA GAA CTT AAA AAC ACG TGC AAA GCC GTG CTG GCG TGT GTG GGA	610		
170	Ala Lys Glu Leu Lys Asn Thr Cys Lys Ala Val Leu Ala Cys Val Gly			
171	130	135	140	
173	GTC TGG ATA ATG ACC CTG ACC ACG ACC CCT CTG CTA CTG CTC TAT	658		
174	Val Trp Ile Met Thr Leu Thr Thr Thr Pro Leu Leu Leu Tyr			
175	145	150	155	160
177	AAA GAC CCA GAT AAA GAC TCC ACT CCC GCC ACC TGC CTC AAG ATT TCT	706		
178	Lys Asp Pro Asp Lys Asp Ser Thr Pro Ala Thr Cys Leu Lys Ile Ser			
179	165	170	175	
181	GAC ATC ATC TAT CTA AAA GCT GTG AAC GTG CTG AAC CTC ACT CGA CTG	754		
182	Asp Ile Ile Tyr Leu Lys Ala Val Asn Val Leu Asn Leu Thr Arg Leu			
183	180	185	190	
185	ACA TTT TTT TTC TTG ATT CCT TTG TTC ATC ATG ATT GGG TGC TAC TTG	802		
186	Thr Phe Phe Leu Ile Pro Leu Phe Ile Met Ile Gly Cys Tyr Leu			
187	195	200	205	
189	GTC ATT ATT CAT AAT CTC CTT CAC GGC AGG ACG TCT AAG CTG AAA CCC	850		
190	Val Ile Ile His Asn Leu Leu His Gly Arg Thr Ser Lys Leu Lys Pro			
191	210	215	220	
193	AAA GTC AAG GAG AAG TCC ATA AGG ATC ATC ACG CTG CTG GTG CAG	898		
194	Lys Val Lys Glu Lys Ser Ile Arg Ile Ile Ile Thr Leu Leu Val Gln			
195	225	230	235	240
197	GTG CTC GTC TGC TTT ATG CCC TTC CAC ATC TGT TTC GCT TTC CTG ATG	946		
198	Val Leu Val Cys Phe Met Pro Phe His Ile Cys Phe Ala Phe Leu Met			
199	245	250	255	
201	CTG GGA ACG GGG GAG AAC AGT TAC AAT CCC TGG GGA GCC TTT ACC ACC	994		
202	Leu Gly Thr Gly Glu Asn Ser Tyr Asn Pro Trp Gly Ala Phe Thr Thr			
203	260	265	270	
205	TTC CTC ATG AAC CTC AGC ACG TGT CTG GAT GTG ATT CTC TAC TAC ATC	1042		
206	Phe Leu Met Asn Leu Ser Thr Cys Leu Asp Val Ile Leu Tyr Tyr Ile			

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/910,695

DATE: 08/15/2001
TIME: 13:37:05

Input Set : N:\Crf3\RULE60\09910695.txt
Output Set: N:\CRF3\08152001\I910695.raw

207	275	280	285	
209	GTT TCA AAA CAA TTT CAG GCT CGA GTC ATT AGT GTC ATG CTA TAC CGT			1090
210	Val Ser Lys Gln Phe Gln Ala Arg Val Ile Ser Val Met Leu Tyr Arg			
211	290	295	300	
213	AAT TAC CTT CGA AGC ATG CGC AGA AAA AGT TTC CGA TCT GGT AGT CTA			1138
214	Asn Tyr Leu Arg Ser Met Arg Arg Lys Ser Phe Arg Ser Gly Ser Leu			
215	305	310	315	320
217	CGG TCA CTA AGC AAT ATA AAC AGT GAA ATG TTA TGAATAATAA GGTTCTTCA			1191
218	Arg Ser Leu Ser Asn Ile Asn Ser Glu Met Leu			
219	325	330		
221	TTTCAATCCC ATCAAAATTC ACTTCACTAA CTACTCTGGC GTCAATGGAT ATTCTGTATA			1251
223	ATACTATCAA GTCCCTTTTC TCTTGAAAAA ATAAATTCA TATCTTCATT TTAAAAACTT			1311
225	AAA			1314
228	(2) INFORMATION FOR SEQ ID NO: 4:			
230	(i) SEQUENCE CHARACTERISTICS:			
231	(A) LENGTH: 331 amino acids			
232	(B) TYPE: amino acid			
233	(D) TOPOLOGY: linear			
235	(ii) MOLECULE TYPE: protein			
237	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:			
239	Met Ile Thr Leu Asn Asn Gln Asp Gln Pro Val Pro Phe Asn Ser Ser			
240	1	5	10	15
242	His Pro Asp Glu Tyr Lys Ile Ala Ala Leu Val Phe Tyr Ser Cys Ile			
243	20	25	30	
245	Phe Ile Ile Gly Leu Phe Val Asn Ile Thr Ala Leu Trp Val Phe Ser			
246	35	40	45	
248	Cys Thr Thr Lys Lys Arg Thr Thr Val Thr Ile Tyr Met Met Asn Val			
249	50	55	60	
251	Ala Leu Val Asp Leu Ile Phe Ile Met Thr Leu Pro Phe Arg Met Phe			
252	65	70	75	80
254	Tyr Tyr Ala Lys Asp Ala Trp Pro Phe Gly Glu Tyr Phe Cys Gln Ile			
255	85	90	95	
257	Ile Gly Ala Leu Thr Val Phe Tyr Pro Ser Ile Ala Leu Trp Leu Leu			
258	100	105	110	
260	Ala Phe Ile Ser Ala Asp Arg Tyr Met Ala Ile Val Gln Pro Lys Tyr			
261	115	120	125	
263	Ala Lys Glu Leu Lys Asn Thr Cys Lys Ala Val Leu Ala Cys Val Gly			
264	130	135	140	
266	Val Trp Ile Met Thr Leu Thr Thr Thr Pro Leu Leu Leu Tyr			
267	145	150	155	160
269	Lys Asp Pro Asp Lys Asp Ser Thr Pro Ala Thr Cys Leu Lys Ile Ser			
270	165	170	175	
272	Asp Ile Ile Tyr Leu Lys Ala Val Asn Val Leu Asn Leu Thr Arg Leu			
273	180	185	190	
275	Thr Phe Phe Leu Ile Pro Leu Phe Ile Met Ile Gly Cys Tyr Leu			
276	195	200	205	
278	Val Ile Ile His Asn Leu Leu His Gly Arg Thr Ser Lys Leu Lys Pro			
279	210	215	220	
281	Lys Val Lys Glu Lys Ser Ile Arg Ile Ile Thr Leu Leu Val Gln			

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/910,695

DATE: 08/15/2001

TIME: 13:37:05

Input Set : N:\Crf3\RULE60\09910695.txt
 Output Set: N:\CRF3\08152001\I910695.raw

282	225	230	235	240												
284	Val	Leu	Val	Cys	Phe	Met	Pro	Phe	His	Ile	Cys	Phe	Ala	Phe	Leu	Met
285				245						250						255
287	Leu	Gly	Thr	Gly	Glu	Asn	Ser	Tyr	Asn	Pro	Trp	Gly	Ala	Phe	Thr	Thr
288					260					265						270
290	Phe	Leu	Met	Asn	Leu	Ser	Thr	Cys	Leu	Asp	Val	Ile	Leu	Tyr	Tyr	Ile
291						275			280			285				
293	Val	Ser	Lys	Gln	Phe	Gln	Ala	Arg	Val	Ile	Ser	Val	Met	Leu	Tyr	Arg
294						290			295			300				
296	Asn	Tyr	Leu	Arg	Ser	Met	Arg	Arg	Lys	Ser	Phe	Arg	Ser	Gly	Ser	Leu
297	305					310				315						320
299	Arg	Ser	Leu	Ser	Asn	Ile	Asn	Ser	Glu	Met	Leu					
300					325				330							

302 (2) INFORMATION FOR SEQ ID NO: 5:

304 (i) SEQUENCE CHARACTERISTICS:

305	(A) LENGTH: 400 base pairs
306	(B) TYPE: nucleic acid
307	(C) STRANDEDNESS: single
308	(D) TOPOLOGY: linear

310 (ii) MOLECULE TYPE: cDNA

313 (ix) FEATURE:

314	(A) NAME/KEY: CDS
315	(B) LOCATION: 2..226

317 (x) PUBLICATION INFORMATION:

318	(H) DOCUMENT NUMBER: US 60/053,693
319	(I) FILING DATE: 25-JUL-1997

321 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

323	G CTA CAA GGA CAG GAG AAC AGC TAT AGC CCC TGG GGA GCC TTC ACC	46		
324	Leu Gln Gly Gln Glu Asn Ser Tyr Ser Pro Trp Gly Ala Phe Thr			
325	1	5	10	15

327	ACC TTC CTC ATG AAC CTC AGC ACC TGT CTC GAT GTA GTC CTC TAC TAC	94		
328	Thr Phe Leu Met Asn Leu Ser Thr Cys Leu Asp Val Val Leu Tyr Tyr			
329	20	25	30	

331	ATC GTT TCC AAA CAG TTC CAG GCT CGA GTC ATC AGC GTC ATG CTG TAC	142		
332	Ile Val Ser Lys Gln Phe Gln Ala Arg Val Ile Ser Val Met Leu Tyr			
333	35	40	45	

335	CGC AAT TAC CTT CGC AGT GTT CGC AGA AAA AGT GTC CGA TCG GGC AGT	190		
336	Arg Asn Tyr Leu Arg Ser Val Arg Arg Lys Ser Val Arg Ser Gly Ser			
337	50	55	60	

339	TTA CGG TCA CTT AGC AAC ATG AAC AGT GAG ATG CTT TGAGTCAGAG	236		
340	Leu Arg Ser Leu Ser Asn Met Asn Ser Glu Met Leu			
341	65	70	75	

343	CAAGCTGCCA GTCTTCAGTC TCTTTAAAAT TCTTTCCCTA TCTACTTCG GGTGAACCAG	296
345	CATTCTACAC TATCCAGTCC CTTCTCTAAC AAAGAGAAAT AATAATGATG AACCTTAAAA	356
347	ACTTCTGCGG TATTCTGTGT ATTCTAGCCA CATGATTAAA AACT	400

350 (2) INFORMATION FOR SEQ ID NO: 6:

352 (i) SEQUENCE CHARACTERISTICS:

353 (A) LENGTH: 75 amino acids

354 (B) TYPE: amino acid

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/910,695

DATE: 08/15/2001

TIME: 13:37:06

Input Set : N:\Crf3\RULE60\09910695.txt

Output Set: N:\CRF3\08152001\I910695.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]